

Change Number m-15-00-07	Federal Facility Agreement and Consent Order Change Control Form <small>Do not use blue ink. Type or print using black ink.</small>	Date 12/19/00		
Originator M. J. Furman		Phone 373-9630		
Class of Change <div style="display: flex; justify-content: space-around;"> <input type="checkbox"/> I - Signatories <input type="checkbox"/> II - Executive Manager <input checked="" type="checkbox"/> III - Project Manager </div>				
Change Title Modifications to the Groundwater Sampling and Analysis for the 100-BC-5 Operable Unit Groundwater Sampling Project				
Description/Justification of Change <ol style="list-style-type: none"> 1) Well 699-72-88, which is part of the 100-BC-5 monitoring network, will be decommissioned in FY01 as part of the River Corridor Project. Well 699-72-92 will serve as the upgradient well for the 100-BC-5 Operable Unit. 2) Waste handling for all well-related activities will be in accordance with the 100-BC-5 Waste Control Plan. 				
<div style="font-size: 2em; font-weight: bold; letter-spacing: 0.5em;">RECEIVED</div> <div style="font-size: 1.2em; font-weight: bold;">JAN 18 2001</div> <div style="font-size: 1.5em; font-weight: bold; margin-top: 10px;">EDMC</div>				
The attached Tables 1 and 2 summarize the changes to 100-BC-5 sampling. Minor modifications to the list of specific wells used and constituents analyzed may occur to meet the changing field conditions and the results of data evaluation.				
Impact of Change The changes are the result of remediation activities in 100-BC-5.				
Affected Documents 1) Remedial Investigation/Feasibility Study Work Plan for the 100-BC-5 Operable Unit, Hanford Site, Richland, WA; DOE/RL-90-08, July 1992. 2) 100 NPL Agreement/Change Control Form #14, "100-BC-5 Operable Unit Groundwater Monitoring Network," EPA approval July 1992; 3) Federal Facility Agreement and Consent Order Change Control Form, Change Number M-15-96-07. 3) Federal Facility Agreement and Consent Order Change Control Form, Change Number M-15-99-03.				
<table style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2" style="vertical-align: top;"> Approvals <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> DOE </div> <div style="width: 30%;"> 12/18/00 Date </div> <div style="width: 30%;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> EPA </div> <div style="width: 30%;"> 12-19-00 Date </div> <div style="width: 30%;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> N/A Ecology </div> <div style="width: 30%;"></div> <div style="width: 30%;"> <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div> </td></tr></table>			Approvals <div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> DOE </div> <div style="width: 30%;"> 12/18/00 Date </div> <div style="width: 30%;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> EPA </div> <div style="width: 30%;"> 12-19-00 Date </div> <div style="width: 30%;"> <input checked="" type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 30%;"> N/A Ecology </div> <div style="width: 30%;"></div> <div style="width: 30%;"> <input type="checkbox"/> Approved <input type="checkbox"/> Disapproved </div> </div>	
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Table 1. Sampling and Analysis Schedule for 100-BC-5 Groundwater Project

Well Number	Facility Monitored/Purpose	Schedule	Program	Change
199-B2-12	116-B-11 Retention Basin	A	BCLFI	None
199-B3-1	116-B-11 Retention Basin	A	BCLFI	None
199-B3-46	116-C-1 Trench	A	BCLFI	None
199-B3-47	116-B-11 Retention Basin	A	BCLFI	None
199-B4-1	116-B-5 Crib	2-O	BCLFI	None
199-B4-2	116-B-5 Crib	A	S	None
199-B4-3	116-B-5 Crib	N/A	BCLFI	None
199-B4-4	B Reactor Building Effluent Disposal	2-E	BCLFI	None
199-B4-5	In Situ Vittrification Test/116-B-6A	2-E	BCLFI	None
199-B4-6	In Situ Vittrification Test/116-B-6A	N/A	BCLFI	None
199-B4-7	In Situ Vittrification Test/116-B-6A	2-E	BCLFI	None
199-B5-1	183-B Water Treatment Plant	A	BCLFI	None
199-B5-2	Liquid Effluent Disposal Crib	A	BCLFI	None
199-B8-6	105-B Burial Ground	2-E	BCLFI	None
199-B9-2	Reactor "pluto" crib	2-E	BCLFI/S	None
199-B9-3	Reactor "pluto" crib	2-O	BCLFI	None
699-63-90	Background	A	S	None
699-65-72	Background	2-O	BCLFI/S	None
699-65-83	Background	2-E	BCLFI	None
699-66-64	Background	2-O	BCLFI/S	None
699-67-86	Background	2-E	BCLFI	None
699-72-73	Background	A	BCLFI/S	None
699-72-88	Background	N/A	S	Decommissioned
699-72-92	Background	2-E	BCLFI	None
Seep 037-1	Area/shoreline exposure	A	BCLFI	None
Seep 039-2	Area/shoreline exposure	A	BCLFI	None
Notes: 2-E = biennial sampling, even years (starting 1998), A = annual sampling, 2-O = biennial sampling, odd years (starting 1997), S = Surveillance Monitoring, BCLFI = 100-BC-5 Limited Field Investigation, N/A = not applicable/decommissioned well				

Table 2. Analysis Suite Codes for the 100-BC-5 Groundwater Project

Analysis/Parameter	Constituent	
Metals by routine ICP (EPA 6010A-Target Analyte List)	Aluminum	Iron
	Antimony	Magnesium
	Barium	Manganese
Note: Filtered samples only for all metal analysis	Beryllium	Nickel
	Cadmium	Potassium
	Calcium	Silver
	Chromium	Sodium
	Cobalt	Vanadium
	Copper	Zinc
Anions by IC (EPA 300.0)	Chloride	Nitrate
	Fluoride	Sulfate
Radionuclide screening	Gross alpha	
	Gross beta	
	Activity scan*	
Specific radionuclides	Strontium-90	
	Tritium	
Field parameters	pH	
	Specific conductance	
	Temperature	
	Turbidity	
	Hexavalent chromium**	
Note: * = Selected wells only, ** = Annually in wells 199-B3-47 and 199-B5-1, ICP= Inductively coupled plasma, IC = Ion chromatography. Constituent selection based on TPA Change Control Form M-15-96-07, August 1996.		